



## Test Report

No.:SZTYR090702318/EL

Date: AUG 27, 2009

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### EN 62115 SPECIFICATION REQUIREMENTS & TEST RESULTS

<u>Clause</u>	<u>Assessment</u>	<u>Remarks</u>
1. Scope	--	
2. Normative references	--	
3. Definitions	--	
4. General requirement	--	
5. General conditions for the tests	--	
6. Selection of tests	--	
7. Marking and instructions	Pass	
8. Power input	N/A	*
9. Heating and abnormal operation	Pass	
10. Electric strength at operating temperature	Pass	
11. Moisture resistance	Pass	
12. Electric strength at room temperature	Pass	
13. Mechanical strength	Pass	
14. Construction	Pass	
15. Protection of cords and wires	Pass	
16. Components	Pass	
17. Screws and connections	Pass	
18. Creepage distances and clearances	Pass	
19. Resistance to heat and fire	Pass	
20. <sup>1</sup> Radiation hazards <sup>2</sup> toxicity and similar hazards	Pass N/P	*

\* Remark: N/A = Not Applicable  
N/P = Not Perform

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**DETAILS OF TEST RESULTS**

**Clause 6 Selection of tests**

6.2 The unit is not under the exemption conditions stated in this clause, therefore, clauses 7, 9 to 20 shall be applicable to be tested.

**Clause 9 Heating and abnormal operation**

9.2 The unit was placed on the floor of the test corner during normal and abnormal operation.

9.3 The unit was operated by 4 x 1.2V 600mAh "AAA" size "Ni-MH" rechargeable batteries until steady conditions were established. The maximum temperature rises were recorded as follows:

Light mode

Ambient temperature ( °C ) : 20.6

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Enclosure (near battery)	1.9	55
Enclosure (near PCB)	2.9	55
Surface of LED	4.8	55

9.8.2 This clause was not applicable since the electronic circuit was a low power circuit. Also the protection against fire hazard or dangerous malfunction in other parts of the toy did not rely on the correct function of the electronic circuit.

**Clause 16 Components**

16.2 The submitted samples did not fit with mercury switch or thermal cut-outs which could be reset by soldering operation.

**Clause 19 Resistance to heat and fire**

19.2.1 Glow-wire test (550 °C) in accordance with IEC 60695-2-11

<u>Location / Part</u>	<u>Result / Observation</u>
The battery compartment cover	No flame, no molten drop
The battery compartment	No flame, no molten drop

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**SZTY 1960256**

### Clause 20 Radiation, toxicity and similar hazards

LED in this unit was classified Class 1 in accordance with IEC 60825-1.

Part under test	Wavelength	Accessible Emission Level	AEL / Limit	Class	Comment	
White LED	a)	460.0 nm	3.39 mJ	<1	1	Pass
		555.5 nm	0.91 mJ			
	b)	460.0 nm	0.23 mW	<1	1	Pass
		555.5 nm	0.08 mW			

Remark: a) For Retinal Photochemical Hazard  
b) For Retinal Thermal Hazard

### Sample Photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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**SZTY 1960255**